

CONTENTS

Number 1/2

COMPUTER-AIDED LEARNING IN ENGINEERING

David F. Rogers	1	Obituary
Mukesh Bhatt and Ruth Thomas	3	Preface
A. G. Hall	5	A workshop approach using spreadsheets for the teaching of statistics and probability
E. L. Dobson, M. Hill and J. D. Turner	13	An evaluation of the student response to electronics teaching using a CAL package
Ruth Thomas and Irene Neilson	21	Harnessing simulations in the service of education: the Interact simulation environment
Detlev Fischer and Clive Richards	31	Cinegrams for self-directed learning
P. W. Bonsall	41	Computer-aided training for transport planners: experience with the PLUTO package
D. Main and H. J. Staines	53	An empirical approach to the assessment of CAD/CAM
Alan Brown	59	Evaluation of teaching and learning processes in a computer-supported mechanical engineering course
G. M. Chapman and J. F. Martin	67	Computerized business games in engineering education
J. D. Bailey, J. L. Hall, P. A. S. Reed and C. J. Colbourn	75	CBL in engineering: students' use of a learning resource on phase diagrams

Number 3

Barry G. Silverman	81	Computer supported collaborative learning (CSCL)
Anne McDougall and David Squires	93	An empirical study of a new paradigm for choosing educational software
Michael Luck and Mike Joy	105	Automatic submission in an evolutionary approach to computer science teaching

I. M. Marshall, W. B. Samson, P. I. Dugard and G. R. Lund	113	The mythical courseware development to delivery time ratio
C. E. Beevers, G. R. McGuire, G. Stirling and D. G. Wild	123	Mathematical ability assessed by computer
Philip C. Burda, Timothy W. Starkey, Florentino Dominguez and Michelle R. Tremont	133	Computer-assisted psychoeducation of psychiatric inpatients
John Trushell, Chris Davidson-Paine and Ann Slater	139	Factors affecting development of IT use on a partnership PGCE course
Pien Wang and Pui San Chan	151	Advantages, disadvantages, facilitators, and inhibitors of computer-aided instruction in Singapore's secondary schools
Judith Gal-Ezer	163	Computer science teachers' certification program
Software Review	169	
Book Review	171	

Number 4

Anne L. Russell	173	Stages in learning new technology: naive adult email users
Eva Y. W. Wong	179	How should we teach computer ethics? A short study done in Hong Kong
Deborah A. Vastola and Ellen L. Walker	193	The design and implementation of an interactive learning tool for statistical reasoning with uncertainty
Marc M. Sebrechts, Barry G. Silverman, Deborah A. Boehm-Davis and Kent L. Norman	215	Establishing an electronic collaborative learning environment in a university consortium: the CIRCLE project
J. W. van Aalst, C. A. P. G. van der Mast and T. T. Carey	227	An interactive multimedia tutorial for user interface design
Mphahlele Maredi and H. J. Oosthuizen	235	A problem-solving CAI—Factor-Q
Book Review	251	

